	Application No. Applica		int(s)	
Notice of Allowability	10/655,423	JUNG ET AL.		
	Examiner	Art Unit		
	Binh X. Tran	1765		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not include nunication will be mailed in due	ded e course. <b>THIS</b>	
1. This communication is responsive to <u>11-07-2005</u> .				
2. The allowed claim(s) is/are 1-14.				
3.   Acknowledgment is made of a claim for foreign priority up a)   All b)   Some* c)   None of the:  1.   Certified copies of the priority documents have	e been received.			
2. Certified copies of the priority documents have	• •	<del></del>		
3. Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage applic	ation from the	
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	∉IENT of this application.  In the initial of the	(AMINER'S AMENDMENT or	·	
INFORMAL PATENT APPLICATION (PTO-152) which give 5.  CORRECTED DRAWINGS (as "replacement sheets") must		or declaration is deficient.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revie	ew ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date				
(b) including changes required by the attached Examiner' Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on he header according to 37 C	the drawings in the front (not th FR 1.121(d).	e back) of	
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF B	ERIAL must be submitted. IOLOGICAL MATERIAL.	Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of I	nformal Patent Application (PT	O 152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview S	Summary (PTO-413),	0-102)	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li> </ol>	Paper No 98), 7. ☐ Examiner's	./Mail Date s Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	s Statement of Reasons for All	owance	
•	9. 🗌 Other	7. ~		
		MADINE O MOTOR		
	SUF	NADINE G. NORTON ERVISORY PATENT EXAN	IINER	

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## **DETAILED ACTION**

## Allowable Subject Matter

- 1. Claims 1-14 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The cited prior arts fail to disclose or suggest the second etching process to the second trench, so that a third trench having a second depth deeper than the first depth is formed in the second region, wherein the insulating layer has a first thickness under the third trench and a second thickness under at least one first trench, the first thickness of being less than the second thickness. The closest prior art (Parikh) teaches to extend the via hole 340 from the signal line trench to the substrate.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh X. Tran whose telephone number is (571) 272-1469. The examiner can normally be reached on Monday-Thursday and every other Friday.

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5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Binh X. Tran

NADINE G. NORTON SUPERVISORY PATENT EXAMINER

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